

**IN THE SPECIFICATION:**

At the top of the first page, just under the title, please delete the paragraph inserted with the Preliminary Amendment dated March 15, 2002, and substitute therefore:

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**Cross Reference to Related Applications**

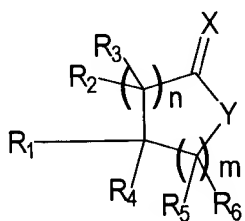
This application is ~~divisional~~ continuation-in-part of U.S. Application 09/979 717,377 filed November 22, 2000, the entire contents of the parent application are hereby incorporated in their entirety by reference.

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**IN THE CLAIMS:**

Please amend the claims as follows:

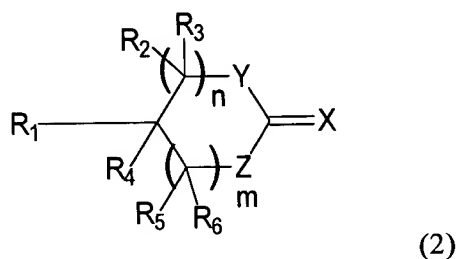
- 1 (Original) A radiation curable composition comprising radiation curable components wherein at least one component contains a functional group which, when attached to an acrylate group has a calculated Boltzmann average dipole moment of greater than 3.5 Debye, excluding the components 2,3-caronyldioxypropyl 2-(meth)acryloyloxyethyl carbonate, 3,4-caronyldioxybutyl 2-(meth)acryloyloxyethyl carbonate, 5,6-caronyldioxyhexyl 2-(meth)acryloyloxyethyl, the acrylate of beta-hydroxyethylloxazolidone and 2-oxo-1,3-dioxolan-4-yl-methyl acrylate.
- 2 (Original) The radiation curable composition of claim 1, wherein the components comprise
  - A a radiation curable oligomer (A) and
  - B a diluent (B).
3. (Original) The radiation curable composition of claim 2, wherein the diluent (B) is a reactive diluent (B).
4. (Previously Amended) The radiation curable composition according to claim 1, wherein the functional group, when attached to an acrylate group, has a Boltzmann average dipole moment of higher than 4.5 Debye.
5. (Previously Amended) The radiation curable composition according to claim 1, wherein one or more components are present that are chosen from the group consisting of lactones (C1) according to the formula (1):



(1)

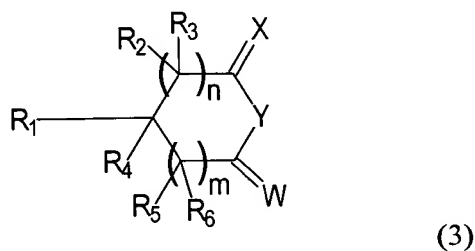
wherein  $R_1$  = organic group with a molecular weight between 40 and 20000;  $R_2, R_3, R_4, R_5, R_6$  and  $R_7$  are independently of each other H, an alkyl group having 1-20 C atoms, wherein the alkylgroup can be linear, branched or cyclic and may contain heteroatoms like =N, O, S and P; X is an oxygen or sulfur atom; Y is an oxygen or sulfur atom or an  $NR_7$ -group; n is 0-4; m is 0-4 and  $n+m=1-4$ ;

or cyclic carbonates (C2) according to formula (2):



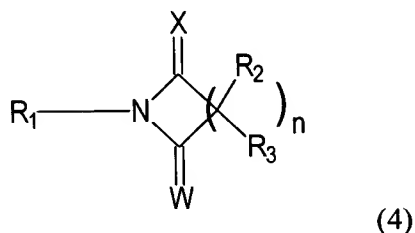
wherein  $R_1$  = organic group with a molecular weight between 40 and 20000;  $R_2, R_3, R_4, R_5, R_6$  and  $R_7$  are independently of each other H, an alkyl group having 1-20 C atoms, wherein the alkylgroup can be linear, branched or cyclic and may contain heteroatoms like =N, O, S and P or an arylgroup having from 6-20 C-atoms; X is an oxygen or sulfur atom; Y and Z are independently an oxygen or sulfur atom or an  $NR_7$ -group; n is 0-4; m is 0-4 and  $n+m=1-4$ , but excluding the compound wherein  $n=1, m=0, R_2, R_3, R_4=H$  and  $R_1=CH_2CHCO_2CH_2$  or  $R_1=CH_2CCH_3CO_2CH_2$ ,

or compounds (C3) according to the formula (3):



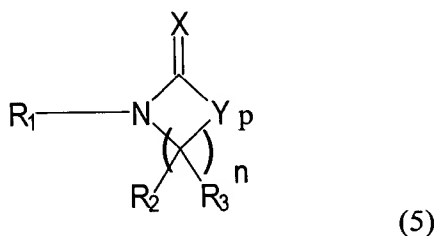
wherein  $R_1$  = organic group with a molecular weight between 40 and 20000;  $R_2, R_3, R_4, R_5, R_6$  and  $R_7$  are independently of each other H, an alkyl group having 1-20 C atoms, wherein the alkylgroup can be linear, branched or cyclic and may contain heteroatoms like =N, O, S and P or an arylgroup having from 6-20 C-atoms; X and W are independently an oxygen or sulfur

atom; Y is an oxygen or sulfur atom or an NR<sub>7</sub>-group; n is 0-4; m is 0-4 and n+m = 1-4;  
or a compound (C4) according to the formula (4):



wherein R<sub>1</sub> = organic group with a molecular weight between 40 and 20000; R<sub>2</sub>, and R<sub>3</sub>, are independently of each other H, an alkyl group having 1-20 C atoms, wherein the alkylgroup can be linear, branched or cyclic and may contain heteroatoms like =N, O, S and P or an arylgroup having from 6-20 C-atoms; X and W are independently an oxygen or sulfur atom; n is 1-4;

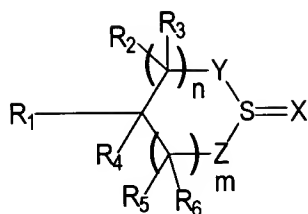
or a compound (C5) according to the formula (5):



wherein R<sub>1</sub> = organic group with a molecular weight between 40 and 20000; R<sub>2</sub>, and R<sub>3</sub> are independently of each other H, an alkyl group having 1-20 C atoms, wherein the alkylgroup can be linear, branched or cyclic and may contain heteroatoms like =N, O, S and P or an arylgroup having from 6-20 C-atoms; X is an oxygen or sulfur atom; Y is an oxygen or sulfur atom or an NR<sub>7</sub>-group; n is 1-5; p = 0, 1; but excluding a compound wherein

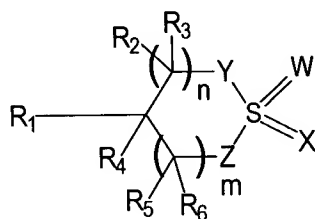
R<sub>1</sub>=CH<sub>2</sub>CHCO<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub> or R<sub>1</sub>=CH<sub>2</sub>CCH<sub>3</sub>CO<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub> with n=2, 3 and X = Y = oxygen,

or a compound (C6) according to the formula (6):



(6)

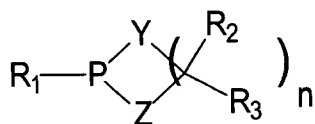
wherein  $R_1$  = organic group with a molecular weight between 40 and 20000;  $R_2, R_3, R_4, R_5, R_6$  and  $R_7$  are independently of each other H, an alkyl group having 1-20 C atoms, wherein the alkylgroup can be linear, branched or cyclic and may contain heteroatoms like =N, O, S and P or an arylgroup having from 6-20 C-atoms; X is an oxygen or sulfur atom; Y and Z are independently an oxygen or sulfur atom or an  $NR_7$ -group; n is 0-4; m is 0-4 and  $n+m = 1-4$ , or a compound (C7) according to the formula (7):



(7)

wherein  $R_1$  = organic group with a molecular weight between 40 and 20000;  $R_2, R_3, R_4, R_5, R_6$  and  $R_7$  are independently of each other H, an alkyl group having 1-20 C atoms, wherein the alkylgroup can be linear, branched or cyclic and may contain heteroatoms like =N, O, S and P or an arylgroup having from 6-20 C-atoms; W, X, Y and Z are independently an oxygen or sulfur atom or an  $NR_7$ -group with the proviso that W and X are not both an  $NR_7$ -group at the same time; n is 1-4;

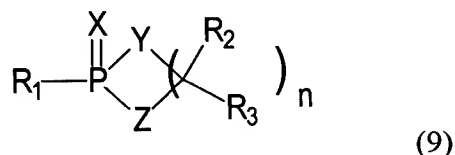
or a compound (C8) according to the formula (8):



(8)

wherein  $R_1$  = organic group with a molecular weight between 40 and 20000;  $R_2, R_3$ , and  $R_7$  are independently of each other H, an alkyl group having 1-20 C atoms, wherein the alkylgroup can be linear, branched or cyclic and may contain heteroatoms like =N, O, S and P

or an arylgroup having from 6-20 C-atoms; X is an oxygen or sulfur atom; Y and Z are independently an oxygen or sulfur atom or an NR<sub>7</sub>-group; n is 1-4;  
or a compound (C9) according to the formula (9):



wherein R<sub>1</sub> = organic group with a molecular weight between 40 and 20000; R<sub>2</sub>, R<sub>3</sub>, and R<sub>7</sub> are independently of each other H, an alkyl group having 1-20 C atoms, wherein the alkylgroup can be linear, branched or cyclic and may contain heteroatoms like =N, O, S and P or an arylgroup having from 6-20 C-atoms; X is an oxygen or sulfur atom; Y is an oxygen or sulfur atom or an NR<sub>7</sub>-group; n is 1-4.

6. (Original) The radiation curable composition according to claim 5, wherein at least one of the R<sub>1</sub> to R<sub>7</sub> groups contains a radiation curable functional group.

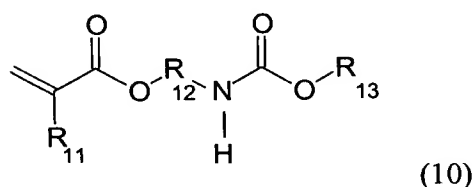
7. (Previously Amended) The radiation curable composition according to claim 6, wherein the radiation curable oligomer (A) or diluent (B) comprises a NH- or OH-group.

8. (Previously Amended) The radiation curable composition according to claim 1, wherein the component that contains a functional group also has a radiation curable functional group selected from the group consisting of methacrylate, acrylate, vinyl ether, fumarate, maleate, itaconate, oxolane or epoxy group.

9. (Currently Amended) The radiation curable composition according to ~~any of claims 1-8~~ claim 1, wherein the component that contains a functional group also has a radiation curable functional group selected from the group consisting of methacrylate, acrylate, vinyl ether, fumarate, maleate, itaconate, oxolane or epoxy group.

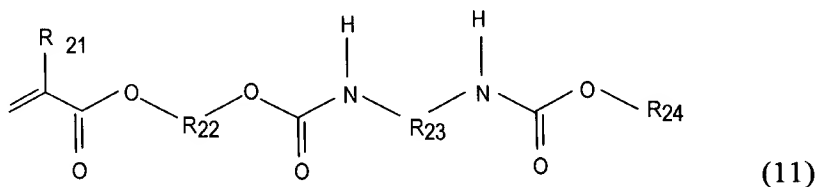
10. (Original) The radiation curable composition according to claim 9, wherein the radiation curable functional group is a methacrylate or an acrylate group.

11. (Previously Amended) The radiation curable composition according to claim 1, wherein a radiation curable diluent is present, which is a compound according to the formula (10):



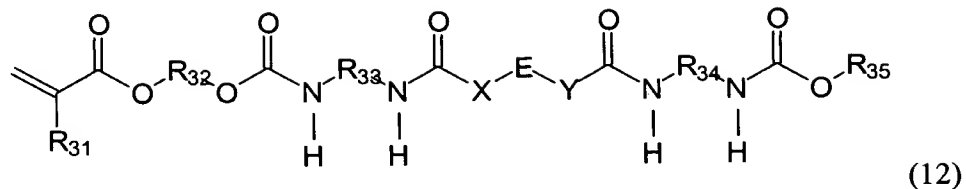
wherein  $R_{11}$  = H or Me,  $R_{12}$  = organic group having 1-20 C-atoms and  $R_{13}$  is a heterocyclic group of which the corresponding alcohol has a calculated Boltzmann average dipole moment of  $> 2.5$  Debye.

12. (Previously Amended) The radiation curable composition according to claim 1, wherein a radiation curable diluent is present, which is a compound according to the formula (11):



wherein  $R_{21}$  = H or Me,  $R_{22}$  = organic group having 1-20 C-atoms,  $R_{23}$  = organic group having 1-20 C atoms and  $R_{24}$  is a heterocyclic group of which the corresponding alcohol has a calculated Boltzmann average dipole moment of  $> 2.5$  Debye.

13. (Previously Amended) The radiation curable composition according to claim 1, wherein a radiation curable component is present according to the formula (12):



wherein  $R_{31}$  = H or Me,  $R_{32}$ ,  $R_{33}$  and  $R_{34}$  = are independently an organic group having 1-20 C atoms, E oligomer or polymer with a molecular weight between 100 and 100000, X and Y are independently oxygen, sulphur or a  $NR_7$ -group, and  $R_{35}$  is a heterocyclic group of which the corresponding alcohol has a calculated Boltzmann average dipolemoment of  $> 2.5$  Debye.

14. (Original) The radiation curable composition according to claim 13, wherein E has a molecular weight between 500 and 10000.

15. (Previously Amended) The radiation curable composition according to claim 1, wherein the component that contains a functional group which, when attached to an acrylate group, has a calculated Boltzmann average dipole moment of greater than 3.5 Debye or the component containing a heterocyclic group of which the corresponding alcohol has a calculated Boltzmann average dipole moment of greater than 2.5 Debye is present in an amount of at least about 3 wt.% relative to the total amount of components in the composition.

16. (Original) The radiation curable composition of claim 15, wherein the component that contains a functional group or the component that contains a heterocyclic group is present in an amount of at least about 5 wt.% relative to the total amount of components in the composition.

17-21. (Cancelled).

22. (Currently Amended) ~~Use of The~~ radiation curable composition as defined in claim 1, wherein said composition is a coating composition, an adhesive composition, or an ink composition in coatings, adhesives, inks.



23. (Currently Amended) ~~Use of a~~ A radiation curable glass fiber coating composition comprising

- a a radiation curable oligomer (A)
- b a diluent (B)

~~as a coating for glass fibers~~ wherein the radiation curable composition contains a component having a functional group which has a calculated Boltzmann average dipole moment of higher than 2.5 Debye.

24. (Currently Amended) ~~Use of the~~ The radiation curable composition as defined in claim 1, wherein said composition is an glass fiber coating composition for coating of glass fibers.

25. (Currently Amended) ~~Use of a~~ A radiation curable stereolithography composition comprising

- a a radiation curable oligomer (A)
- b a diluent (B)

~~in stereolithography~~ wherein the radiation curable composition contains a component having a functional group which has a calculated Boltzmann average dipole moment of higher than 2.5 Debye.

26-34. (Cancelled).

35. (New) The composition of claim 5, wherein said composition comprises a component according to said formula (2).

36. (New) The composition of claim 35, wherein  $n+m$  in formula (2) equals 1.

37. (New) The composition of claim 35, wherein Y represents an oxygen atom and wherein Z represents an  $\text{NR}_7$ -group.

38. (New) The composition of claim 36, wherein Y represents an oxygen atom and

JANSEN – 09/989,717

wherein Z represents an NR<sub>7</sub>-group.

39. (New) The composition of claim 22, wherein said composition is a DVD adhesive composition.

40. (New) The composition of claim 1, wherein said composition is a stereolithography composition.

**REMARKS**

After introduction of the amendment set forth above, claims 1-16, 22-25, and 35-40 will be pending in the application of which claims 1, 23, 25, and 26 are independent.

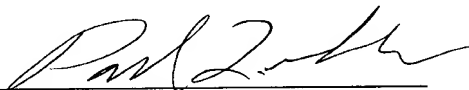
The specification has been amended to indicate that the present application is a continuation-in-part application and to correct a clerical error concerning the serial number of the parent application.

Claims 17-21 and 26-34 have been cancelled (without prejudice or disclaimer), claims 22-25 have been rewritten in more conventional U.S. claim format, and new claims 35-40 have been added. Support for the above amendments and new claims can be found throughout the original application as filed. No new matter has been introduced.

It is respectfully submitted that the present application is in condition for allowance and a Notice to that effect is earnestly solicited. However, should the Examiner believe any issues remain unresolved, the Examiner is encouraged to call the undersigned attorney to expedite the prosecution of this application.

Respectfully submitted,

PILLSBURY WINTHROP, LLP

By: 

Paul L. Sharer

Reg. No. 36,004

Tel. No.: (703) 905-2180

Fax No.: (703) 905-2500

PLS:wdw  
PO Box 10500  
McLean, VA 22102  
(703) 905-2000